English

中文

User's Manual
用户手册

DuraVision®
FDX1001T
FDV1001T
FDX1201T

Touch Panel Color LCD Monitor
触摸式彩色液晶显示器

Important

Please read this User's Manual carefully to familiarize yourself with safe and effective usage.
Please retain this manual for future reference.

重要事项

请仔细阅读用户手册，掌握如何安全、有效地使用本产品。
请保留本手册，以备日后参考。

EIZO®

For U.S.A. , Canada, etc. (rated 100-120 Vac) Only

FCC Declaration of Conformity

We, the Responsible Party	EIZO NANAO TECHNOLOGIES INC.
	5710 Warland Drive, Cypress, CA 90630
	Phone: (562) 431-5011
declare that the product	Trade name: EIZO
	Model: DuraVision FDX1001T/FDV1001T/FDX1201T

is in conformity with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Notice

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de le classe B est comforme à la norme NMB-003 du Canada.

English

User's Manual

DuraVision®
FDX1001T
FDV1001T
FDX1201T

Touch Panel Color LCD Monitor

SAFETY SYMBOLS

This manual and this product use the safety symbols below. They denote critical information. Please read them carefully.

WARNING

Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.

CAUTION

Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.

	Indicates an attention to be required. For example, the symbol illustrates the hazard type such as “the risk of electric shock”.
	Indicates a prohibited action. For example, the symbol illustrates a particular prohibited action such as “Do not disassemble”.
	Indicates a mandatory action that must be followed. For example, the symbol illustrates the notification of general prohibition such as “Grounding the unit”.

Using the special functions, such as screen size change (ex. changing the horizontal and vertical ratio of images input) for commercial purposes or for the purpose of showing in public may violate copyright laws.

This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside this region, the product may not perform as stated in the specifications.

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Although every effort has been made to ensure that this manual provides up-to-date information, please note that EIZO monitor specifications are subject to change without notice.

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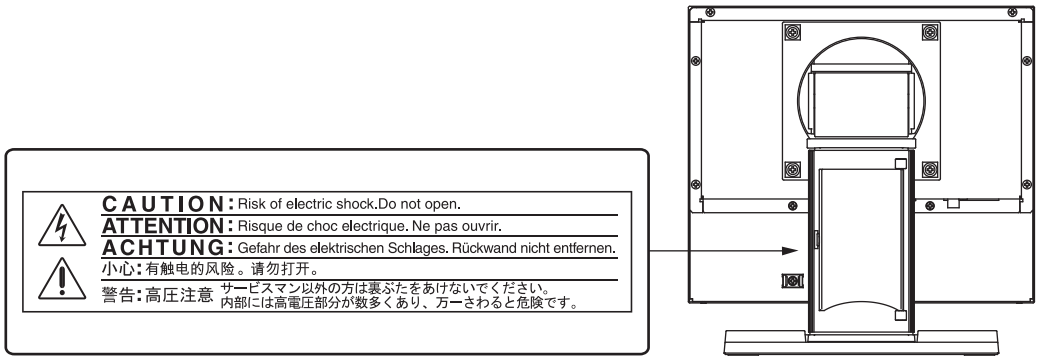
⚠PRECAUTIONS

IMPORTANT

- To ensure personal safety and proper maintenance, please read this section and the caution statements on the unit (refer to the figure below).

【Location of Caution Statement】



⚠WARNING

If the unit begins to emit smoke, smells like something is burning, or makes strange noises,disconnect all power connections immediately and contact your dealer for advice.

Attempting to use a malfunctioning unit may result in fire, electric shock, or equipment damage.

Do not open the cabinet or modify the unit.

Opening the cabinet or modifying the unit may result in fire, electric shock, or burn.

Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing covers may result in fire, electric shock, or equipment damage.

Keep small objects or liquids away from the unit.

Small objects accidentally falling through the ventilation slots into the cabinet or spillage into the cabinet may result in fire, electric shock, or equipment damage. If an object or liquid falls/spills into the cabinet, unplug the unit immediately. Have the unit checked by a qualified service engineer before using it again.

Place the unit at the strong and stable place.

A unit placed on an inadequate surface may fall and result in injury or equipment damage. If the unit falls, disconnect the power immediately and ask your dealer for advice. Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock.

⚠ WARNING

Use the unit in an appropriate location.

Not doing so may result in fire, electric shock, or equipment damage.

- Do not place outdoors.
- Do not place in a transportation system (ship, aircraft, train, automobile, etc.) where it may be affected by strong vibration or shock.
- Do not place in a dusty or humid environment.
- Do not place in a location where water is splashed on the screen (bathroom, kitchen, etc.).
- Do not place in a location where the steam comes directly on the screen.
- Do not place near heat generating devices or a humidifier.
- Do not place in a location where the product is subject to direct sunlight.
- Do not place in an inflammable gas environment.

To avoid danger of suffocation, keep the plastic packing bags away from babies and children.

Use the enclose AC adapter.

The enclosed AC adapter is for use with this product only. Do not use the AC adapter with other equipment. Connecting to power sources that do not match the power ratings of the AC adapter may result in fire or electric shock.

Make sure the power cord meets the following requirements.

This product does not include a power cord. Please provide separately a power cord which meets the requirements. (For more information, please contact your dealer.)

- The power cord is compatible with the standards of the country and region in which this product is to be used.
- The power cord has a rated value of at least 2.5A.

Power supply: 100-240Vac 50/60Hz

To disconnect the power cord, grasp the plug firmly and pull.

Tugging on the cord may damage and result in fire or electric shock.

Use the correct voltage.

- The unit is designed for use with a specific voltage only. Connection to another voltage than specified in this User's Manual may cause fire, electric shock, or equipment damage.
  Power supply: 100-240Vac 50/60Hz
- Do not overload your power circuit, as this may result in fire or electric shock.

Handle the power cord and AC adapter with care.

Do not place heavy objects on, pull or tie the power cord or the AC adapter. Use of a damaged cord or AC adapter may result in fire or electric shock.

Never touch the plug, AC adapter or power cord during a thunderstorm.

Touching them may result in electric shock.

When attaching an arm stand, please refer to the user's manual of the arm stand and install the unit securely.

Not doing so may cause the unit to become unattached, which may result in injury or equipment damage. When the unit is dropped, please ask your dealer for advice. Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock. When reattaching the tilt stand, please use the same screws and tighten them securely.

⚠ WARNING

Do not touch a damaged LCD panel directly with bare hands.

The liquid crystal that may leak from the panel is poisonous if it enters the eyes or mouth. If any part of the skin or body comes in direct contact with the panel, please wash thoroughly. If some physical symptoms result, please consult your doctor.

⚠ CAUTION

Handle with care when carrying the unit.

Disconnect the power cord and cables when moving the unit. Moving the unit with the cord attached is dangerous. It may result in injury.

When handling the unit, grip the bottom of the unit firmly withboth hands ensuring the panel faces outward before lifting.

Dropping the unit may result in injury or equipment damage.

Do not install the unit in a closed space.

If the inerior becomes hot, it may result in fire, electric shock or damage.

Do not touch the power plug or AC adapter with wet hands.

Doing so may result in electrical shock.

Use an easily accessible power outlet.

This will ensure that you can disconnect the power quickly in case of a problem.

Mind that the AC adapter becomes hot during use.

- Do not cover or place anything on top of the AC adapter. Do not place the AC adapter on top of things that trap heat such as carpets, blankets, etc. Keep the AC adapter away from direct sunlight and heat sources such as heaters.
  Not doing so may result in fire.
- Do not touch with bare hands. Doing so may result in burns.

Do not suspend the AC adapter in midair.

Using it while suspended in midair may result in fire or electric shock.

Periodically clean the area around the plug.

Dust, water, or oil on the plug may result in fire.

Unplug the unit before cleaning it.

Cleaning the unit while it is plugged into a power outlet may result in electric shock.

If you plan to leave the unit unused for an extended period, disconnect the power cord from the wall socket after turning off the power for safety and power conservation.

Notice for this monitor

Aside from displaying microscope images, this product is also suited to the dedicated usages such as operation of terminal equipment.

This product has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate as specified in the specifications.

This product may not be covered by warranty for uses other than those described in this manual.

The specifications noted in this manual are only applicable when the following are used:

- Signal cables specified by us

Only use optional products manufactured or specified by us with this product.

As it takes about 30 minutes for the performance of electrical parts to stabilize, adjust the monitor 30 minutes or more after the monitor power has been turned on.

Monitors should be set to a lower brightness to reduce changes in luminosity caused by long-term use and maintain a stable display.

When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screen saver or power save function to avoid displaying the same image for extended periods of time.

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime. (Refer to “Cleaning” on the next page.)

The LCD panel is manufactured using high-precision technology. Although, missing pixels or lit pixels may appear on the LCD panel, this is not a malfunction. Percentage of effective dots: 99.99% or higher.

The backlight of the LCD panel has a fixed lifetime. When the screen becomes dark or begins to flicker, please contact your local EIZO representative.

Do not scratch or press on the panel with any sharp objects, as this may result in damage to the panel. Do not attempt to brush with tissues as this may scratch the panel.

When the monitor is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur on the interior and exterior surfaces of the monitor. In that case, do not turn the monitor on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the monitor.

(Cautions for the Use of the Touch Panel)

- During touch operation
  Be careful of the following points. Otherwise, damage may occur to the monitor.
  - Do not strongly press, scratch, or poke the panel.
  - Do not touch the panel with hard objects such as ballpoint pens or metals.

Cleaning

ATTENTION

- Chemicals such as alcohol and antiseptic solution may cause gloss variation, tarnishing, and fading of the cabinet or panel, and also quality deterioration of the image.
- Never use any thinner, benzene, wax, and abrasive cleaner, which may damage the cabinet or panel.
- Do not allow liquid to enter the clearance between the panel and the panel frame.

NOTE

- The optional ScreenCleaner is recommended for cleaning the cabinet and panel surface.

If necessary, the stains on the cabinet and panel surface can be removed by moistening part of a soft cloth with water.

To use the monitor comfortably

- An excessively dark or bright screen may affect your eyes. Adjust the brightness of the monitor according to the environmental conditions.
- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.

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Chapter 1 Introduction

Thank you very much for choosing an EIZO color LCD monitor.

1-1. Features

- FDX1001T/FDV1001T: 10.4-inch screen, FDX1201T: 12.1-inch screen
- Resolution
  - FDX1001T/FDX1201T: XGA (1024 × 768) display compliant
  - FDV1001T: VGA (640 × 480) display compliant
- Maximum brightness

  FDX1001T: 460 cd/m^2, FDV1001T: 350 cd/m^2, FDX1201T: 780 cd/m^2
- LED backlight LCD panel

  The LED backlight provides better power efficiency and reduced power consumption compared to existing fluorescent backlight LCD panels.

  No mercury, a hazardous substance, is used.
- Analog signal support

  PC signal: D-Sub mini 15 pin connector × 1
  - FDX1001T/FDX1201T: Horizontal scanning frequency 24 kHz - 50 kHz
    Vertical scanning frequency 55 Hz - 75 Hz
  - FDV1001T: Horizontal scanning frequency 24 kHz - 32 kHz
    Vertical scanning frequency 56 Hz - 70.5 Hz

  Video signal: S-Video/ Video input connector × 1
  - Applicable Format NTSC, PAL, SECAM
- Resistive technology touch panel function

  Enables touch operation of the PC screen.
- Crosshair display function

  Displays lines (Fine, Circle or Broken Line) as a reference for the position of the image displayed on the monitor. 3-3. Configure other settings (page 18)
- Video aspect function

  Alters the display range of the input image (overscan). 3-3. Configure other settings (page 18)

1-2. Package Contents

Check that all the following items are included in the packaging box. If any items are missing or damaged, contact your local dealer.

NOTE

- Please retain the packing materials for future transport of the monitor.

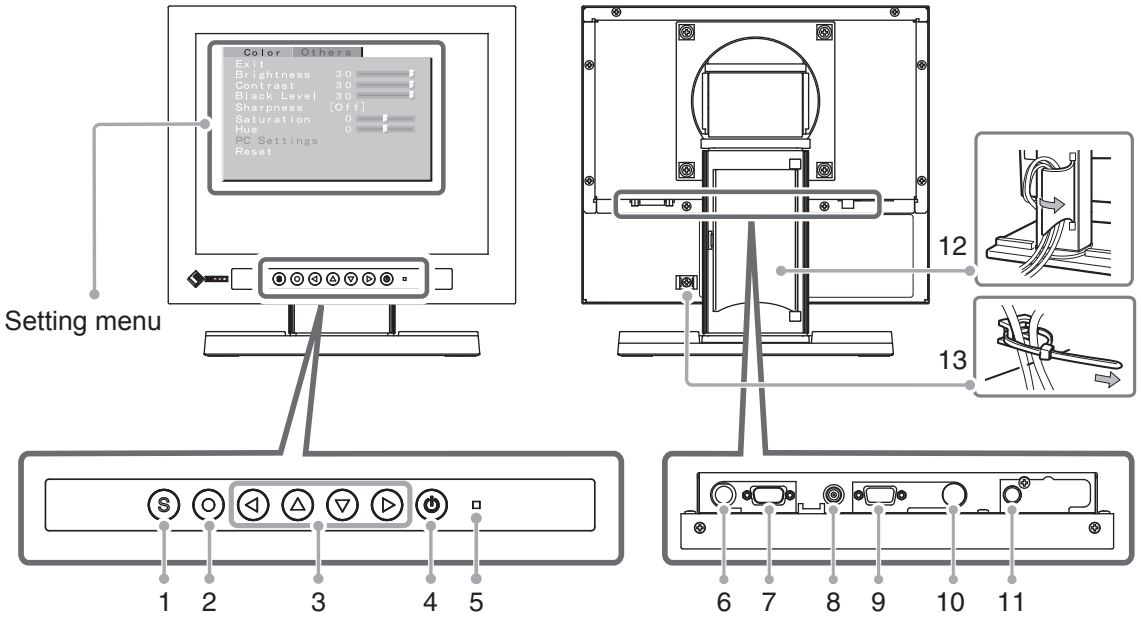
- LCD Monitor
- AC Adapter
- Cable Tie
- User's Manual (Limited Warranty included)
- EIZO LCD Utility Disk (CD-ROM)[*1]
- RS-232C Cable

[*1] The disk includes the touch panel driver.
For how to install the touch panel driver, see the Touch Panel Driver User's Manual (on the CD-ROM).

ATTENTION

- This product does not include a power cord. Please provide separately a power cord which meets the usage requirements.

1-3. Controls and Functions



1	Ⓢ button	Switches the input signal.
2	Ⓞ button	Displays the Setting menu, fixes the setting or adjustment items on each menu, and saves the setting or adjustment results.
3	◁△▽▷ button	• Used to select the setting or adjustment items, or to increase or decrease the adjustment values on each menu. • When the settings menu is not displayed, pressing △ or ▽ switches between displaying and not displaying the crosshair.
4	⏻ button	Turns the power on or off.
5	Power indicator	Indicates monitor's operation status. Blue : Operating Orange : Power off
6	Maintenance port	For monitor control
7	Serial port for the touch panel	Connects the PC to the monitor with an RS-232C cable.
8	Power jack (DC-IN)	Connects to the AC adapter.
9	Input signal connector	D-Sub mini 15-pin connector × 1
10	Input signal connector	S-Video input connector × 1
11	Input signal connector	Video input connector × 1
12	Cable holder	Covers the monitor cables.
13	Cable tie	Clinches the cables.

Chapter 2 Connecting Cables

2-1. Connection Procedures

1 Connects to external equipment compatible with the monitor.

- When used as a PC monitor ····· page 11
- When using video equipment ····· page 12

● When used as a PC monitor

ATTENTION

- When replacing the current monitor with an FDX1001T / FDV1001T /FDX1201T monitor, be sure to change the PC settings for resolution and vertical frequency to those which are available for the FDX1001T / FDV1001T/ FDX1201T monitor referring to the resolution table (see below) before connecting the PC.

Compatible Resolutions/Frequencies

The monitor supports the following resolutions.

• FDX1001T/FDX1201T

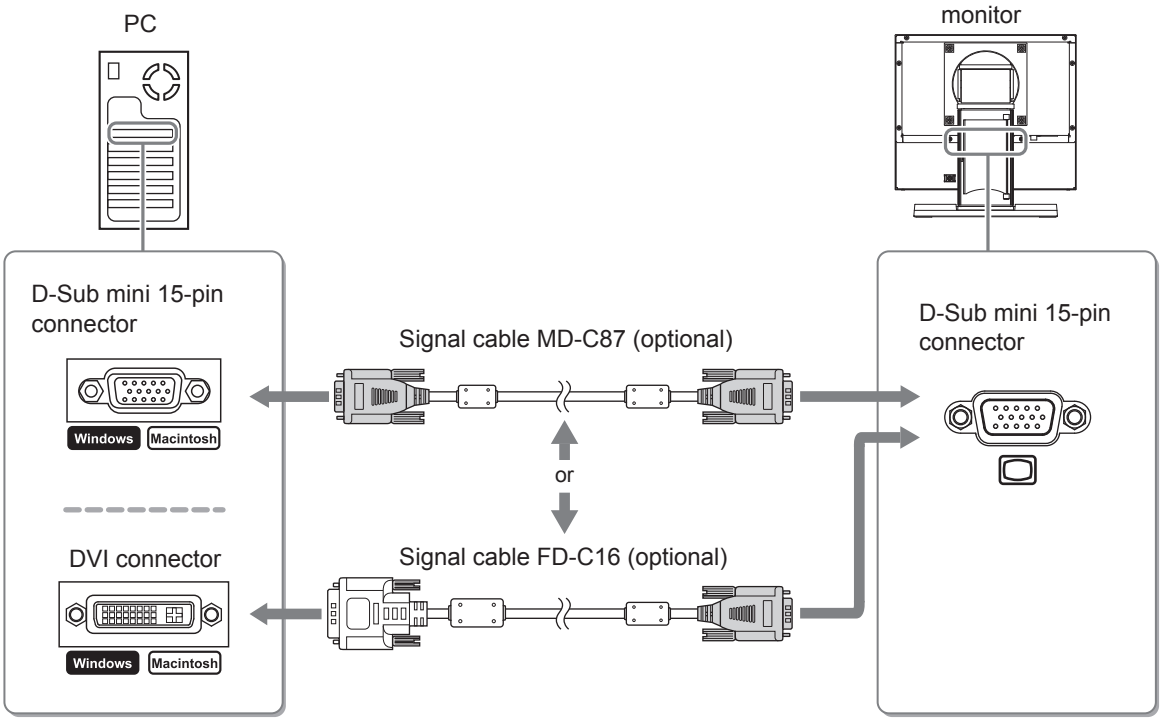
Resolution	Display Mode	Frequency	Dot Clock
640 × 400	NEC PC-9801	56 Hz	~65 MHz
640 × 400	NEC PC-9821 AP2	70 Hz	
640 × 480	Apple Macintosh	67 Hz	
640 × 480	VGA, VESA	~75 Hz	
720 × 400	VGA TEXT	70 Hz	
800 × 600	VESA	~75 Hz	
832 × 624	Apple Macintosh	75 Hz	
1024 × 768*1	VESA	60 Hz	

*1 Recommended resolution (Set this resolution.)

• FDV1001T

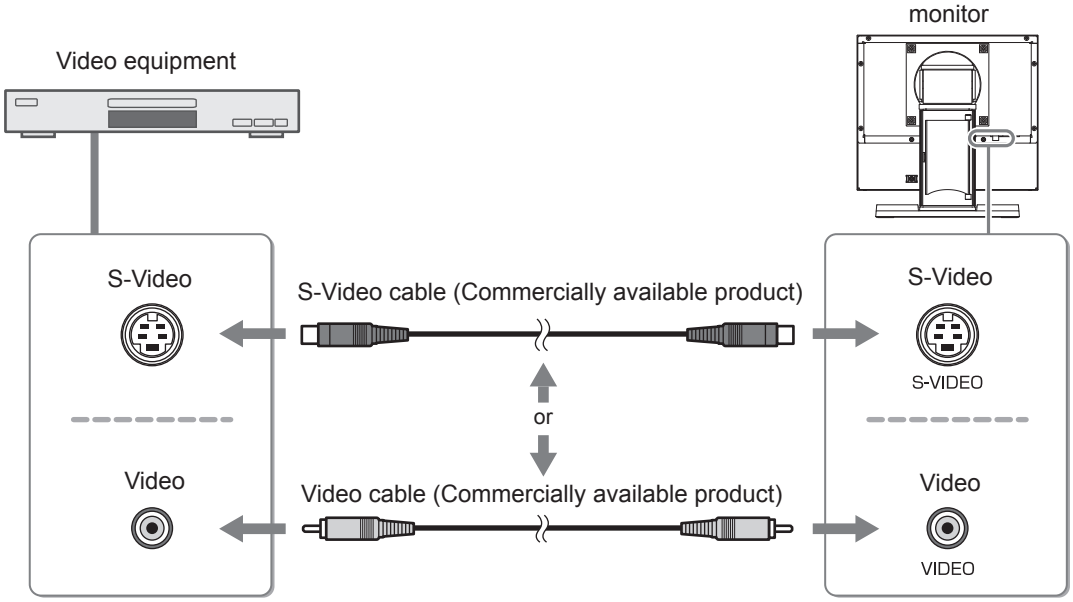
Resolution	Display Mode	Frequency	Dot Clock
640 × 480	Apple Macintosh	67 Hz	~31 MHz
640 × 480	VGA	60 Hz	

(1) Connect the monitor to the PC with a signal cable that matches the connectors.
After connecting the cable connectors, tighten the screws of the connectors to secure the coupling.



- **When using video equipment**

(1) Connect the monitor to the video equipment with a signal cable that matches the connectors.



2 Plug the power cord of the monitor into a power outlet.

(1) Connect the power cord to the AC adapter.

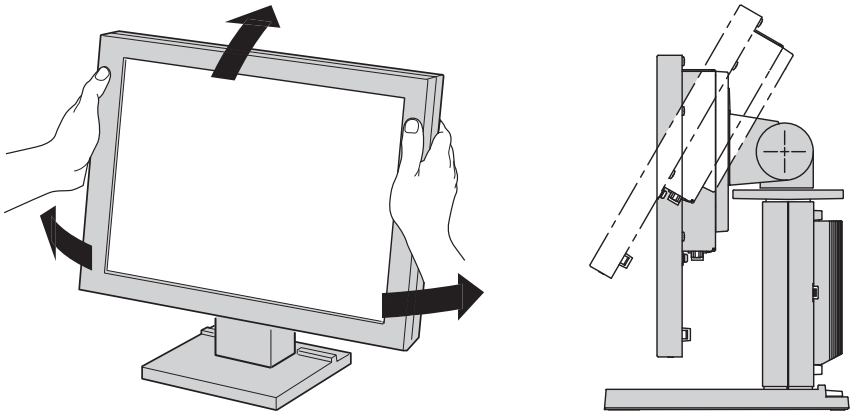
(2) Connect the AC adapter to the Power jack of the monitor, and after that, connect the power plug to a power outlet.

ATTENTION

- This product does not include a power cord. Please provide separately a power cord which meets the usage requirements.
- For the maximum power saving, it is recommended that the Power button be turned off. Unplugging the power cord completely shuts off power supply to the monitor.

2-2. Adjusting the Screen Angle

Hold left and right edge of the monitor with both hands, and adjust the tilt and swivel to the best condition for working.



2-3.Installing the Touch Panel Driver

ATTENTION

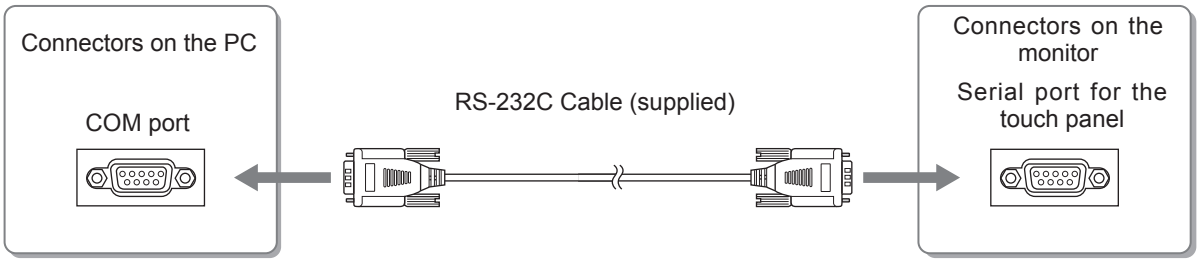
- The user account to be used for installing the touch panel driver must have the "Administrators" privilege.
- When reinstalling the touch panel driver to update the driver, etc., restart the PC after uninstalling the driver and then install it.

1 Uninstall the other touch panel driver, if it is installed.

2 Install the touch panel driver according to the instructions included in the CD-ROM.

For how to install the touch panel driver, see the Touch Panel Driver User's Manual (on the CD-ROM).

3 Connect the monitor to the PC with the included RS-232C signal cable.



4 Restart the PC.

ATTENTION

- After the restart, set up the device using the following procedure. For details, refer to the Touch Panel Driver User's Manual (on the CD-ROM).
  1. Click "Start" - "All Program" - "DMC" - "DMC Touch Panel Configuration" to display the [Properties] window.
  2. Click "Add a serial device", and register a new serial device.
  3. Click "Device", and specify the COM port number used for [COM port].
  4. Click "Apply".
  5. Click "Close".

2-4.Calibrating the Monitor

Calibrate the monitor according to the instruction manual for the touch panel driver on the CD-ROM.

Chapter 3 Settings and Adjustments

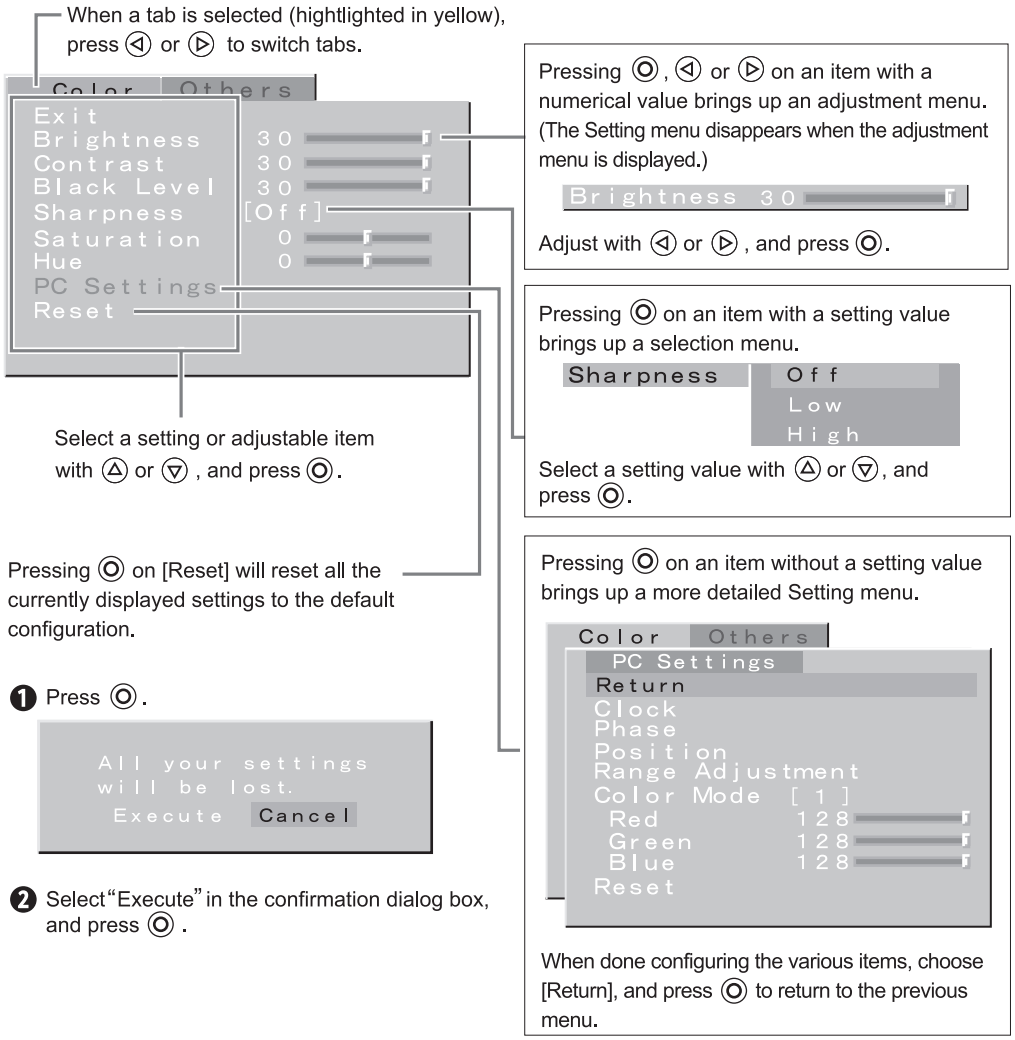
3-1. Basic Operation and Functions

Basic operation of Setting menu

1 Displaying Setting Menu

Press ⓞ.

2 Setting/Adjusting



3 Exiting

Choose [Exit] with △ or ▽, and press ⓞ.

NOTE

- Keeping ⓞ pressed for 2 seconds will also exit the Setting menu.

Functions

The settings adjustable in the Setting menu are as shown below. The availability of items depends on the input signal.

√ : Configurable — : Not configurable

Tab	Setting / adjustable item		PC	Video	Reference
Color	Brightness		√	√	page 17
	Contrast		√	√	
	Black Level		√	√	
	Sharpness		—	√	
	Saturation		—	√	
	Hue		—	√	
	PC Settings	Clock	√	—	
		Phase	√	—	
		Position	√	—	
		Range Adjustment	√	—	
		Color Mode	√	—	
		Red/Green/Blue	√	—	
		Reset	√	—	
	Reset		√	√	
Others	Video Aspect		—	√	page 18
	Power Save		√	√	
	Reverse		√	√	
	Crosshair		√	√	
		Color	√	√	
		Width	√	√	
	Beep		√	√	
	Language		√	√	
	Touch Panel		√	√	
	Information		√	√	

3-2. Color Adjustment

This will perform color adjustments.

Please switch between the input screens you want to adjust and adjust them one by one.

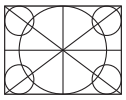
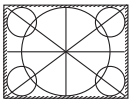
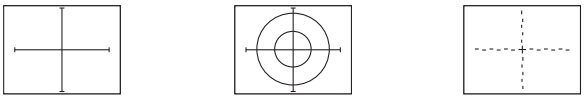
Adjustable item / adjustable value			Adjusting
Brightness	0 - 30		Adjusts the brightness of the backlight.
Contrast	0 - 30		Adjusts the contrast.
Black Level	0 - 30		Adjusts the image brightness.
Sharpness	Off/Low/High		Adjusts the image outlines.
Saturation	-30 - +30		Adjusts the saturation.
Hue	-30 - +30		Adjusts the hue.
PC Settings[*1]	Clock		Adjust this when vertical bars appear.
	Phase		Adjust this when the screen appears to flicker or blur.
	Position		Adjust this when the display positioning is misaligned.
	Range Adjustment		Provides automatic adjustment when you want every color gradients displayed.
	Color Mode[*2]	1/2/3	Select Color Mode (1/2/3) to adjust the colors of red, green and blue in several modes.
	Red/Green/Blue	0 - 128	
	Reset		Resets the state adjusted with [PC Settings] to the factory default.
Reset			Resets the state adjusted with the [Color] tab to the factory default (excluding [PC Settings]).

[*1] This setting becomes available when a PC is connected to the monitor. Please adjust with a PC when display and color adjustments are required.

[*2] Perform [Range Adjustment] before adjusting Color Mode.

3-3. Configure other settings

This will configure other settings.

Setting item / setting value		Setting
Video Aspect	Normal/100%	Configures the display range of the input image (overscan). "Normal" : Displays the input image with the outmost parts slightly cut off. * This is how display devices normally display images.  "100%" : Displays most of the input image. * Because a part of the image which normally gets cut off is displayed as well, noise may be visible around the outmost parts, depending on the input signal. 
Power Save	Disable/Enable	Automatically turns off the power supply if no video signal has been received for 15 minutes during PC or video viewing.
Reverse	Off/On	Displays the image upside down (180 degree rotation).
Crosshair	Off/Fine/Circle/ Broken Line	Displays a crosshair as a reference for the position of the image. "Fine" "Circle" "Broken Line"  (When the settings menu is not displayed, pressing △ or ▽ switches between displaying and not displaying the crosshair.)
Color	When "Fine" is selected: Black/White/Red/ Green When "Circle" or "Broken Line" is selected: Black/White	Configures the color of the crosshair.
Width	Narrow/Wide	Configures the thickness of the crosshair's lines.
Beep	Off/On	Sets button press sounds and connection error sounds to on or off. • Short beep : - When ⏻, S or ◎ is pressed. - When an item is selected with ◎. - When a maximum or minimum value is set with ◁ or ▷. • Long beep : When registration is performed with ◎. • 2 short beeps : When the Setting menu is displayed and ⏻ is pressed. • 4 short beeps : - When there is no input signal. - When a frequency out of the specified range is received.
Language	日本語 /English	Configures the displayed Setting menu and message language
Touch Panel	PC+VIDEO/PC/ VIDEO	Select an input that enables touch panel operation.
Information		Reviews the input signals, usage time and model name.

Chapter 4 Troubleshooting

If a problem still remains after applying the suggested remedies, contact your local dealer.

Common

Problems	Possible cause and remedy
No picture • Power indicator does not light.	• Check whether the power cord is connected correctly. • If the problem persists, turn off the power, and then turn it on again a few minutes later.
• Power indicator lights orange.	• Press ⏻.
• Power indicator lights blue.	• Check whether the power of the connected device is turned on. • Switch the input signal. • Set each adjusting value in [Brightness] and [Contrast] to higher level. (see page 17)
The screen is too bright or too dark.	• Adjust using [Brightness] or [Contrast]. (The LCD monitor backlight has a fixed life span. When the screen becomes dark or begins to flicker, contact your local dealer.) (see page 17)
Green/red/blue/white dots or defective dots remain on the screen.	• This is due to LCD panel characteristics and is not a failure.
Interference patterns or pressure marks remain on the screen.	• Leave the monitor with a white or black screen. The symptom may disappear.
Afterimages appear.	• Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time. • When displaying the same image for extended periods of time, please set up the screen saver and/or make use of the power saving function.

When displaying on a PC screen

Problems	Possible cause and remedy
The message below appears.	• This message appears when the signal is not input correctly even when the monitor functions properly.
• This message appears when no signal is input. 	• The message shown left may appear, because some PCs do not output the signal soon after power-on. • Check whether the PC is turned on. • Check whether the signal cable is connected properly.
• The message shows that the input signal is out of the specified frequency range. 	• Check whether the signal setting of your PC matches the resolution and the vertical frequency settings for the monitor. (see page 22, 23, 24) (Current input signal can be checked in [Information].) • Reboot the PC. • Select an appropriate display mode using the graphics board's utility. Refer to the manual of the graphics board for details.
Display position is incorrect.	• Adjust image position using [Position]. (see page 17)
Vertical bars appear on the screen or a part of the image is flickering.	• Adjust using [Clock]. (see page 17)
Whole screen is flickering or blurring.	• Adjust using [Phase]. (see page 17)
Characters are blurred.	• This may occur when a non-complying high-resolution signal is input. Check the PC settings and change the resolution which complies with the monitor.

Touch panel problems

Problems	Possible cause and remedy
Cursor position is not correct. / Cursor jumps.	• Turn off and on the monitor. If the symptom is not improved, perform the calibration on the monitor. • Touch with one finger only. • Connect the monitor to the PC with the cable indicated in the User's Manual of the monitor. Using a conversion adapter, the touch panel may not operate properly.
Touch operation is not effective.	• Check whether "Use EEPROM" in the [Device] menu is not checked in the [Properties] settings of the touch panel driver. If the check is already applied, perform the calibration. • Other login user may have changed the setting. Set the touch panel driver again. • Restart "DMC Touch Panel Configuration", or reboot the PC.
Some deflection may appear on the surface of touch panel portion.	• Due to the touch panel structural characteristics, the deflection may occur on the touch panel surface in high temperature/high humidity operating environment. This is not a trouble.
No touch-sound.	• The touch-sound may not be output from the external line out of the PC depending on the hardware configuration. • Under Windows 7, touch-sound is only output through the audio output terminal of the PC. To hear touch-sound, connect speakers.

Chapter 5 Reference

5-1. Attaching an Arm

The stand can be removed and replaced with an arm (or another stand) to be attached to the monitor. Use an arm or stand of EIZO option.

ATTENTION

- When attaching an arm or stand, follow the instructions of their user's manual.
- When using another manufacturer's arm or stand, confirm the following in advance and select one conforming to the VESA standard. Use the M4 × 12 mm screws in use by this monitor.
  - Clearance between the screw holes : 100 mm × 100 mm
  - Thickness of plate : 2.6 mm
  - Strong enough to support weight of the monitor unit (except the stand) and attachments such as cables.
- Connect the cables after attaching an arm or a stand.
- Since the monitor and arm are so heavy, dropping them may result in injury or equipment damage.
- Do not turn the monitor lengthwise.

[Attachment Procedure]

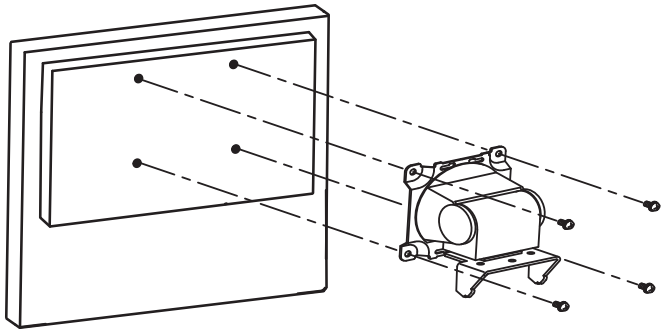
1 Lay the LCD monitor on a soft cloth spread over on a stable surface with the panel surface facing down.

2 Remove the stand.

Prepare a screwdriver. Unscrew the four screws securing the unit and the stand with the screwdriver.

3 Attach the monitor to the arm or stand.

Secure the monitor to the arm or stand using the screws specified in the user's manual of the arm or stand.



5-2. Specifications

FDX1001T

LCD Panel	Size	10.4-inch (260 mm) TFT color LCD
	Surface treatment	Anti-glare
	Surface hardness	2H
	Viewing angle	Horizontal 160°, Vertical 130° (CR : 10 or more)
	Dot Pitch	0.2055 mm
Display Area (H × V)		210.4 mm × 157.8 mm
Resolution		1024 dots × 768 lines
Max. Display Color		Approx. 16.7 million colors
PC input	Horizontal Scan Frequency	24-50 kHz
	Vertical Scan Frequency	55-75 Hz (Non-interlace)
	Max. Dot Clock	65 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	15 (preset : 13)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
	Touch Panel	OS: Microsoft Windows 7 Service Pack 1 (32 bit/64 bit) Microsoft Windows Vista Service Pack 2 (32 bit) Microsoft Windows XP Service Pack 3 (32 bit) (Not compatible with Mac OS) Communication protocol : RS-232C serial Detective method : Analog resistive technology
Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		AC adapter (AC) : 100-240VAC±10%, 50/60Hz, 0.3-0.2 A (Max.) Main unit (DC) : 12VDC±10%, 0.9 A
Power Consumption	Screen Display On	AC adapter (AC) : 14 W or less Main unit (DC) : 11 W or less
	Power Off	AC adapter (AC) : 1.3 W or less Main unit (DC) : 0.5 W or less
Dimensions (Width) × (Height) × (Depth)	Main unit	252 mm (9.9 inch) × 255 mm (10 inch) × 175 mm (6.9 inch)
	Main unit (without stand)	252 mm (9.9 inch) × 216 mm (8.5 inch) × 45 mm (1.77 inch)
Mass	Main unit	Approx. 3.9 kg (8.6 lbs.)
	Main unit (without stand)	Approx. 2.3 kg (5.1 lbs.)
Movable range	Tilt	30°Up, 0°Down
	Swivel	35°Right, 35°Left

Environmental Conditions	Temperature	[Operating temperature] Main unit : 0 °C - 50 °C (32 °F - 122 °F) AC adapter : 0 °C - 40 °C (32 °F - 104 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] Main unit : 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) AC adapter : 20% - 85% R.H.(no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

FDV1001T

LCD Panel	Size	10.4-inch (260 mm) TFT color LCD
	Surface treatment	Anti-glare
	Surface hardness	2H
	Viewing angle	Horizontal 160°, Vertical 140° (CR : 10 or more)
	Dot Pitch	0.33 mm
Display Area (H × V)		211.2 mm × 158.4 mm
Resolution		640 dots × 480 lines
Max. Display Color		Approx. 16.2 million colors
PC input	Horizontal Scan Frequency	24-32 kHz
	Vertical Scan Frequency	56-70.5 Hz (Non-interlace)
	Max. Dot Clock	31 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	10 (preset : 8)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
	Touch Panel	OS: Microsoft Windows 7 Service Pack 1 (32 bit/64 bit) Microsoft Windows Vista Service Pack 2 (32 bit) Microsoft Windows XP Service Pack 3 (32 bit) (Not compatible with Mac OS) Communication protocol : RS-232C serial Detective method : Analog resistive technology
Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		AC adapter (AC) : 100-240VAC±10%, 50/60Hz, 0.2-0.15 A (Max.) Main unit (DC) : 12VDC±10%, 0.7 A
Power Consumption	Screen Display On	AC adapter (AC) : 10 W or less Main unit (DC) : 9 W or less
	Power Off	AC adapter (AC) : 1.3 W or less Main unit (DC) : 0.5 W or less

Dimensions (Width) × (Height) × (Depth)	Main unit	252 mm (9.9 inch) × 255 mm (10 inch) × 175 mm (6.9 inch)
	Main unit (without stand)	252 mm (9.9 inch) × 216 mm (8.5 inch) × 45 mm (1.77 inch)
Mass	Main unit	Approx. 3.7 kg (8.2 lbs.)
	Main unit (without stand)	Approx. 2.1 kg (4.6 lbs.)
Movable range	Tilt	30°Up, 0°Down
	Swivel	35°Right, 35°Left
Environmental Conditions	Temperature	[Operating temperature] Main unit : 0 °C - 50 °C (32 °F - 122 °F) AC adapter : 0 °C - 40 °C (32 °F - 104 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] Main unit : 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) AC adapter : 20% - 85% R.H.(no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

FDX1201T

LCD Panel	Size	12.1-inch (310 mm) TFT color LCD
	Surface treatment	Anti-glare
	Surface hardness	2H
	Viewing angle	Horizontal 160°, Vertical 140° (CR : 10 or more)
	Dot Pitch	0.240 mm
Display Area (H × V)		245.76 mm × 184.32 mm
Resolution		1024 dots × 768 lines
Max. Display Color		Approx. 16.7 million colors
PC input	Horizontal Scan Frequency	24-50 kHz
	Vertical Scan Frequency	55-75 Hz (Non-interlace)
	Max. Dot Clock	65 MHz
	Input Signal Connector	D-Sub mini 15-pin × 1
	Input Signal (Sync)	Separate, TTL, positive / negative
	Input Signal (Video)	Analog, Positive (0.7Vp-p/75Ω)
	Max. Video Signal Memory	15 (preset : 13)
	Plug and Play	VESA DDC 2B/EDID structure 1.3
	Touch Panel	OS: Microsoft Windows 7 Service Pack 1 (32 bit/64 bit) Microsoft Windows Vista Service Pack 2 (32 bit) Microsoft Windows XP Service Pack 3 (32 bit) (Not compatible with Mac OS) Communication protocol : RS-232C serial Detective method : Analog resistive technology

Video input	Applicable Format	NTSC, PAL, SECAM
	Input Signal Connector	S-Video DIN mini 4 pin/ Video Pin jack × 1
	Input Signal Level	S-Video DIN mini 4 pin : Y 1.0Vp-p/75Ω, C 0.28Vp-p/75Ω Video Pin jack : 1.0Vp-p/75Ω
Power Supply		AC adapter (AC) : 100-240VAC±10%, 50/60Hz, 0.4-0.25A (Max.) Main unit (DC) : 12VDC±10%, 1.4 A
Power Consumption	Screen Display On	AC adapter (AC) : 20 W or less Main unit (DC) : 17 W or less
	Power Off	AC adapter (AC) : 1.6 W or less Main unit (DC) : 0.8 W or less
Dimensions (Width) × (Height) × (Depth)	Main unit	293 mm (11.5 inch) × 271 mm (10.7 inch) × 175 mm (6.9 inch)
	Main unit (without stand)	293 mm (11.5 inch) × 244 mm (9.6 inch) × 46 mm (1.81 inch)
Mass	Main unit	Approx. 4.4 kg (9.7 lbs.)
	Main unit (without stand)	Approx. 2.8 kg (6.2 lbs.)
Movable range	Tilt	30°Up, 0°Down
	Swivel	35°Right, 35°Left
Environmental Conditions	Temperature	[Operating temperature] Main unit : 0 °C - 50 °C (32 °F - 122 °F) AC adapter : 0 °C - 40 °C (32 °F - 104 °F) [Storage temperature] -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	[Operating humidity] Main unit : 20% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation) AC adapter : 20% - 85% R.H.(no condensation) [Storage humidity] 10% - 90% R.H. (wet bulb temperature ≤ 39 °C (102 °F), no condensation)
	Pressure	[Operating] 700 hPa - 1060 hPa [Storage] 200 hPa - 1060 hPa

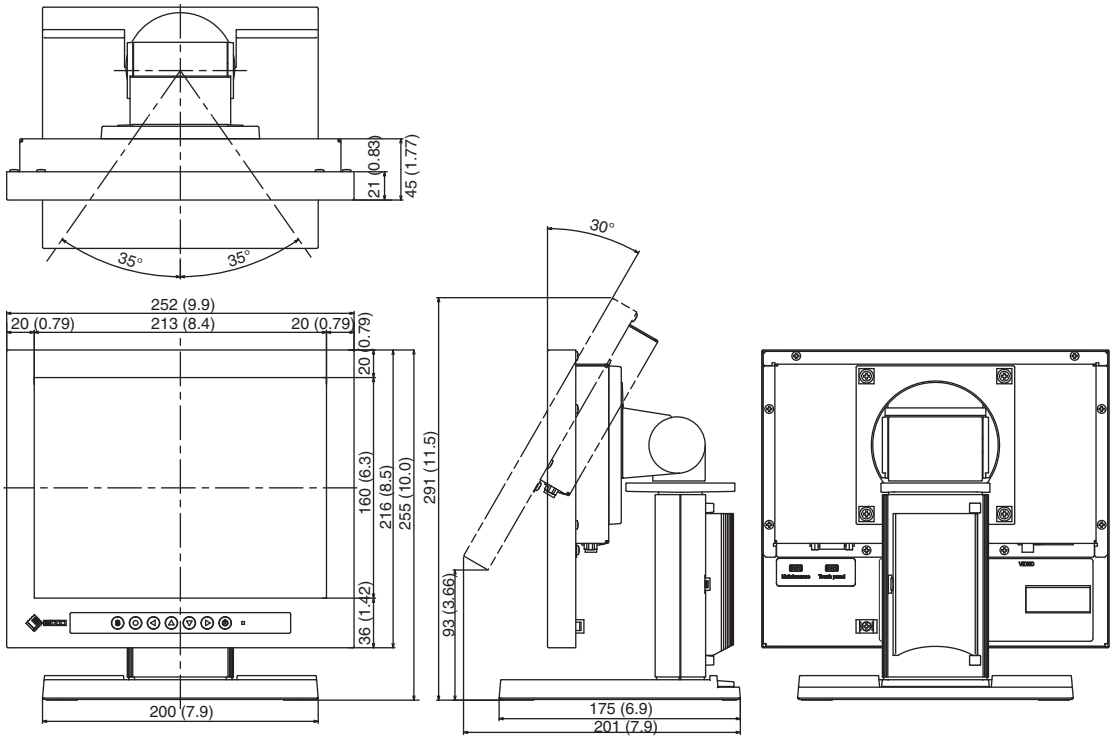
Main default settings (factory settings)

	PC	Video
Brightness	30	
Contrast	FDX1001T/FDX1201T: 30 FDV1001T: 24	15
Black Level	30	15
Sharpness	Off	
Saturation	-	0
Hue	-	0
Color Mode	1	-
Video Aspect	Normal	
Power Save	Enable	
Reverse	Off	
Crosshair	Off	
Beep	On	
Language	English	
Touch Panel	PC+VIDEO	

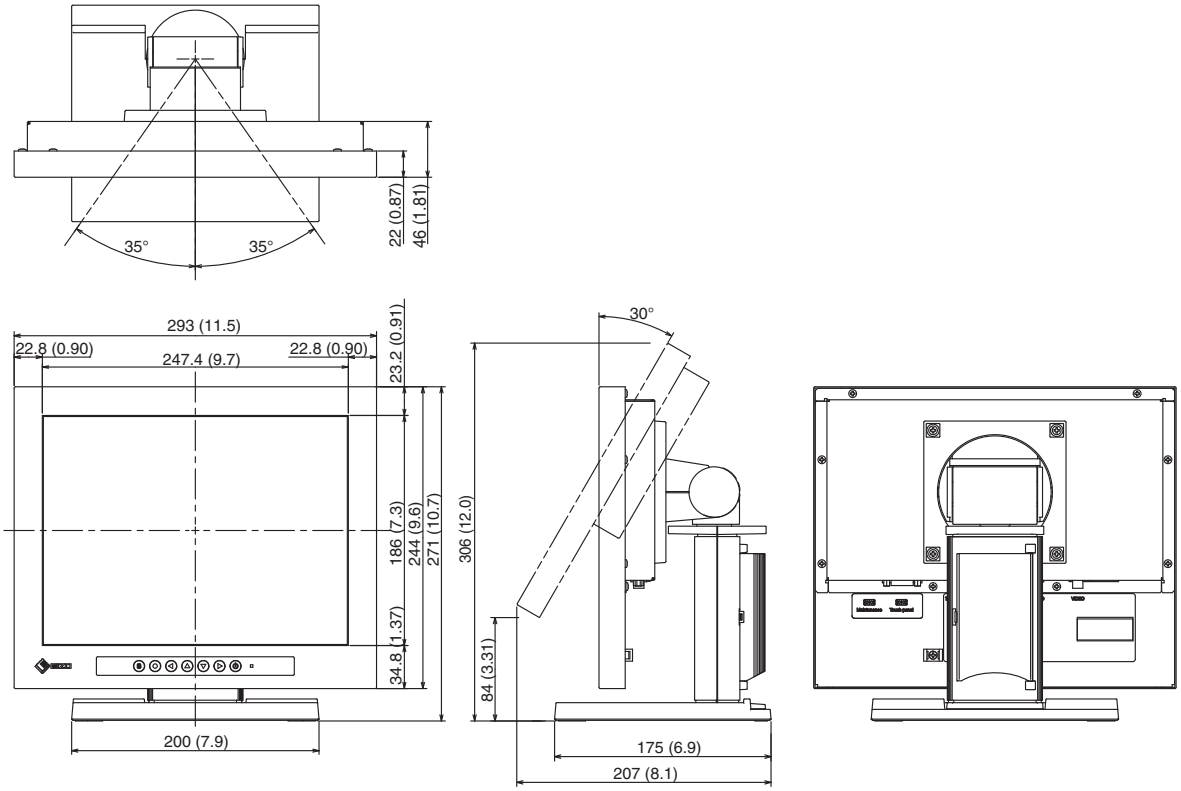
Outside Dimensions

unit : mm (inch)

FDX1001T / FDV1001T

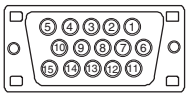


FDX1201T



Connector Pin Assignment

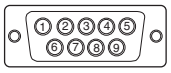
- D-Sub mini 15-pin connector



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	Red video	6	Red video ground	11	NC*
2	Green video	7	Green video ground	12	Data (SDA)
3	Blue video	8	Blue video ground	13	H. Sync
4	NC*	9	NC*	14	V. Sync
5	Ground	10	Ground	15	Clock (SCL)

(NC*: No Connection)

- Serial port for the touch panel



Pin No.	Signal	Pin No.	Signal
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI
5	Ground		

5-3. Glossary

Afterimage

The Afterimage is particular to LCD monitors. When the monitor screen is left on for a long period without use. The Afterimage can be removed gradually by changing the displayed image.

Clock

The analog input monitor needs to reproduce a clock of the same frequency as the dot clock of the graphics system in use, when the analog input signal is converted to a digital signal for image display. This is called clock adjustment. If the clock pulse is not set correctly, some vertical bars appear on the screen.

Phase

Phase means the sampling timing to convert the analog input signal to a digital signal. Phase adjustment is made to adjust the timing. It is recommended that phase adjustment be made after the clock is adjusted correctly.

Range Adjustment

Range adjustment controls the signal output levels to display every color gradation.
It is recommended that range adjustment be made before color adjustment.

Resolution

The LCD panel consists of numerous pixels of specified size, which are illuminated to form images. This monitor consists of 1024 (FDX1001T/FDX1201T) / 640 (FDV1001T) horizontal pixels and 768 (FDX1001T/FDX1201T) / 480 (FDV1001T) vertical pixels.
At a resolution of 1024 × 768 (FDX1001T/FDX1201T) / 640 × 480 (FDV1001T), all pixels are illuminated as a full screen (1:1).

5-4. Preset Timing

The following table shows the factory preset video timing of the PC.

ATTENTION

- Display position may be deviated depending on the PC connected, which may require screen adjustment using Setting menu.
- If a signal other than those listed in the table is input, adjust the screen using the Setting menu. However, screen display may still be incorrect even after the adjustment.
- When interlace signals are used, the screen cannot be displayed correctly even after screen adjustment using the Setting menu.

FDX1001T/FDX1201T

Resolution	Applicable signal	Frequency			Polarity	
		Dot clock : MHz	Horizontal : kHz	Vertical : Hz	Horizontal	Vertical
720 × 400	VGA TEXT	28.33	31.47	70.09	Negative	Positive
640 × 480	VGA	25.18	31.47	59.94	Negative	Negative
640 × 480	VESA	31.50	37.86	72.81	Negative	Negative
640 × 480	VESA	31.50	37.50	75.00	Negative	Negative
800 × 600	VESA	36.00	35.16	56.25	Positive	Positive
800 × 600	VESA	40.00	37.88	60.32	Positive	Positive
800 × 600	VESA	50.00	48.08	72.19	Positive	Positive
800 × 600	VESA	49.50	46.88	75.00	Positive	Positive
1024 × 768	VESA	65.00	48.36	60.00	Negative	Negative
640 × 480	MAC	30.24	35.00	66.67	Negative	Negative
832 × 624	MAC	57.28	49.72	74.55	Negative	Negative
640 × 400	PC-9801	21.05	24.83	56.42	Negative	Negative
640 × 400	PC-9821 AP2	25.18	31.48	70.10	Negative	Negative

FDV1001T

Resolution	Applicable signal	Frequency			Polarity	
		Dot clock : MHz	Horizontal : kHz	Vertical : Hz	Horizontal	Vertical
720 × 400	VGA TEXT	28.33	31.47	70.09	Negative	Positive
640 × 480	VGA	25.18	31.47	59.94	Negative	Negative
800 × 600	VESA	36.00	35.16	56.25	Positive	Positive
800 × 600	VESA	40.00	37.88	60.32	Positive	Positive
1024 × 768	VESA	65.00	48.36	60.00	Negative	Negative
640 × 480	MAC	30.24	35.00	66.67	Negative	Negative
640 × 400	PC-9801	21.05	24.83	56.42	Negative	Negative
640 × 400	PC-9821 AP2	25.18	31.48	70.10	Negative	Negative

LIMITED WARRANTY

EIZO NANAO CORPORATION (hereinafter referred to as “EIZO”) and distributors authorized by EIZO (hereinafter referred to as the “Distributors”) warrant, subject to and in accordance with the terms of this limited warranty (hereinafter referred to as the “Warranty”), to the original purchaser (hereinafter referred to as the “Original Purchaser”) who purchased the product specified in this document (hereinafter referred to as the “Product”) from EIZO or Distributors, that EIZO and Distributors shall, at their sole discretion, either repair or replace the Product at no charge if the Original Purchaser becomes aware within the Warranty Period (defined below) that the Product malfunctions or is damaged in the course of normal use of the Product in accordance with the description in the instruction manual attached to the Product (hereinafter referred to as the “User’s Manual”).

The period of this Warranty is two (2) years from the date of purchase of the Product (hereinafter referred to as the “Warranty Period”). EIZO and Distributors shall bear no liability or obligation with regard to the Product in relation to the Original Purchaser or any third parties other than as provided under this Warranty.

EIZO and Distributors will cease to hold or store any parts of the Product upon expiration of seven (7) years after the production of such parts is discontinued. In repairing the monitor, EIZO and Distributors will use renewal parts which comply with our QC standards.

The Warranty is valid only in the countries or territories where the Distributors are located. The Warranty does not restrict any legal rights of the Original Purchaser.

Notwithstanding any other provision of this Warranty, EIZO and Distributors shall have no obligation under this Warranty whatsoever in any of the cases as set forth below:

(a) Any defect of the Product caused by freight damage, modification, alteration, abuse, misuse, accident, incorrect installation, disaster, faulty maintenance and/or improper repair by third party other than EIZO and Distributors;

(b) Any incompatibility of the Product due to possible technical innovations and/or regulations;

(c) Any deterioration of the sensor;

(d) Any deterioration of display performance caused by the deterioration of expendable parts such as the LCD panel and/or backlight, etc. (e.g. changes in brightness, changes in brightness uniformity, changes in color, changes in color uniformity, defects in pixels including burnt pixels, etc.);

(e) Any defect of the Product caused by external equipment;

(f) Any defect of the Product on which the original serial number has been altered or removed;

(g) Any defect of the Product caused by liquid leaking from battery;

(h) Any normal deterioration of the product, particularly that of consumables, accessories, and/or attachments (e.g. batteries, buttons, rotating parts, remote control, cables, User’s Manual, etc.); and

(i) Any deformation, discoloration, and/or warp of the exterior of the product including that of the surface of the LCD panel.

To obtain service under the Warranty, the Original Purchaser must deliver the Product, freight prepaid, in its original package or other adequate package affording an equal degree of protection, assuming the risk of damage and/or loss in transit, to the local Distributor. The Original Purchaser must present proof of purchase of the Product and the date of such purchase when requesting services under the Warranty.

The Warranty Period for any replaced and/or repaired product under this Warranty shall expire at the end of the original Warranty Period.

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• 有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅（Pb）	汞（Hg）	镉（Cd）	六价铬（Cr（VI））	多溴联苯（PBB）	多溴二苯醚（PBDE）
印刷电路板	×	○	○	○	○	○
机箱	○	○	○	○	○	○
液晶显示器	×	○	○	○	○	○
其他	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 规定的限量要求以下。
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 规定的限量要求。
（企业可在此处，根据实际情况对上表中打“×”的技术原因进行进一步说明）

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